

**ABSTRACT OF THE DISCLOSURE**

A system for carrying two channels of data over a single physical connection. In multi-node systems, data packets are divided into flits with flits from two channels being interleaved and carried by a single physical connection. Once the flits are transmitted, they are reassembled into packets in order to be carried  
5 by a processor bus. Controllers for the channel communicate to minimize "bubbles" observed during packet assembly by the processor bus. Thus, the data is transferred in two different types of resource sharing paradigms.

0004136-000001